BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Detailed Estimate for Maintenance to Electrical Installation to BBMP buildings coming under Byatarayanapura Division at Ward No 5 to 11

Budget Head:-P0294

Ward No.5 to 11 **Estimate No.29/15-16** **For Rs2,00,000.00**

Sl No	Description Of Work	Qty	Rate	Unit	Amount
	Part A:- Maintenance Work				
1	Electrician (Licenced Electrical wiremen fitter/Electrician with tools) Basic Rs. 140.20 Per Day Per Person. + DA Rs. 84.73 Per Day Per Person = Rs. 224.93 Per Day Per Person Total 96 days in an year (Weekly Twice i.e 4 days in a month X 12 month)	48	224.93	Days/person	10796.64
2	Helper Basic Rs. 140.20 Per Day Per Person. + DA Rs. 84.73 Per Day Per Person = Rs. 224.93 Per Day Per Person Total 96 days in an year (Weekly Twice i.e 4 days in a month X 12 month)	48	224.93	Days/person	10796.64
	KPWD (Ele) S.R. 2014-15				
3	Releasing the existing FTL Fitting all capacities, checking, testing and installing at same place. P.No-105 I.No-16.12	75	30.00	Each	2250.00
4	Supplying and fixing/replacing of fluorescent tube. 18 to 40Watts P.No-105 I.No-16.15.1	50	75.00	Each	3750.00
5	Supply and fixing of heavy duty open construction ferromagnetic copper ballast for 20/40 watts fluorescent tubes. P.No-105 I.No-16.11	35	200.00	Each	7000.00
6	Supply and fixing of 230 volts 20/40 watts starter for fluorescent lamp.. P.No-105 I.No-16.18	70	31.00	Each	2170.00
7	Supply and fixing of 230 volts 20/40 watts fluorescent lamp holder. P.No-105 I.No-16.18	40	31.00	No	1240.00
8	Supply and fixing of 230 volts CFL lamp holder 2Pin Holder P.No-105 I.No-16.20.1	100	60.00	No	6000.00
9	Supply and fixing of 230 volts CFL lamp starter base P.No-106 I.No-16.22	50	35.00	No	1750.00
10	Supplying of of 2 pin/4 pin 9-11W CFL Lamp P.No-29 I.No-4.38.16	100	80.00	No	8000.00
11	Supplying of of 2 pin/4 pin 18W CFL Lamp P.No-30 I.No-4.38.18	50	120.00	No	6000.00
12	Supplying of of 4 pin 36w CFL Lamp P.No-30 I.No-4.38.18	50	145.00	No	7250.00
13	Releasing the existing fan checking, testing and installation at the same place.P.No-104 I.No-16.80	15	28.00	Each	420.00
14	Supplying and fixing/replacing condenser for ceiling fan/MV/SV/MH and other luminaries. upto 4mfd P.No-104 I.No- 16.3.1	15	104.00	Each	1560.00
15	Supplying and replacing ceiling fan regulator 900mm to 1500mm P.No-104 I.No- 16.6	10	156.00	Each	1560.00
16	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing.1200MM P.No-104 I.No- 16.4.3	10	630.00	Each	6300.00
17	Supplying and fixing one of 230 volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws Remote type P.No-104 I.No-16.2.3	10	940.00	Each	9400.00
18	Supplying and fixing 6Amps capacity 4 way universal shutter type spike buster suitable to operate on 230V 50Hz AC Supply. P.No-104 I.No- 16.27	15	613.00	No	9195.00

Part B:- Improvement Work					
1 P.No-5 I.No- 2.3	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. GROUP A				
	2.3.1) Short point upto 3Mtr from tapping point to out let via switch box	10	174.00	Point	1740.00
	2.3.2) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	10	245.00	Point	2450.00
	2.3.3) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	5	363.00	Point	1815.00
2 P.No-3 I.No-1.8	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm .... etc. as required.1.8.2)25mm	25	26.00	mtr	650.00
	1.8.3) 32mm	25	35.00	mtr	875.00
3 P.No-6 I.No- 2.5	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 2.5.2) 1.5 sqmm.	150	18.60	Mtr	2790.00
	2.5.3) 2.5 sqmm.	300	29.20	Mtr	8760.00
	2.5.4) 4 sqmm.	25	42.10	Mtr	1052.50
4 P.No -15 I.No-3.1	Switches & Sockets & Accessories Supplying 6A flush type socket and 6 amps flush type SP switch either surface/flush mounting in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required as per IS 1293 and IS 3654 3.1.2) 6Amps 3/5 Way	15	150.00	Each	2250.00
5 P.No -3 I.No-1.6	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete 1.6.3) 10"x7"x3" (254x178x76mm)	5	87.00	Each	435.00
6 P.No -17 I.No-3.10	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws.	2500	0.25	Sqcm	625.00
7 P.No-18 I.No-3.8	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A 3.15.5) 6Amps Bakelite ceiling rose	10	43.00	nos	430.00
	3.15.1) 6Amps SP Switch	15	35.00	nos	525.00
	3.15.3) 6Amps 3 way 5 pin Socket	5	53.00	nos	265.00
	3.15.6) 6 Amps lamp holder	10	48.00	nos	480.00
	3.15.13) 16/6 Amps combined plug and socket with control switch	2	268.00	nos	536.00
	3.15.8) 6 Amps bell buzzer	3	117.00	nos	351.00
8 P.No -16 I.No-3.7	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 3.7.18) 1000-1200Watts Dimmer	5	447.00	Each	2235.00
9 P.No -47 I.No-6.2	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16.3) 5-32 Amps DP	7	849.00	Each	5943.00
	6.16.1) 5-32Amps SP	4	418.00	Each	1672.00

10 P.No -55 I.No-7	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	3	2727.00	No	8181.00
11 P.No -44 I.No-6.7	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 6.7.2) 32Amps	6	180.00	Each	1080.00
12 P.No-20 I.No-4.6	Supplying patti type fluorescent tube light fitting of 4' -suitable for 28 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with HF Electronic Ballast , locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC . Supply including T5 lamp.	12	669.00	Each	8028.00
13 P.No-108 I.No-17.7	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. 17.7.1) On wall / ceiling / Rafter / Girders	12	98.00	Each	1176.00
14 P.No-20 I.No-4.4	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp.	5	952.00	Each	4760.00
15 P.No-78 I.No- 9.3.2	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 56" Sweep (1400mm) 9.3.2.1) Regular model	3	2418.00	Each	7254.00
16 P.No-78 I.No-9.4	Supplying wall mounting fan suitable to operate at single-phase 230v A.C. supply. 9.4.2) 400mm Sweep	5	2534.00	Each	12670.00
17 P.No-108 I.No-17.9	Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired.	8	237.00	Each	1896.00
18 P.No-20 I.No-4.4	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp.	5	952.00	Each	4760.00
19 P No-89 I.No-	Supplying, installation, testing & commissioning of 12 V DC, AH batteries in poly propylene container for U.P.S Low maintenance Tubular batteries 12 V ,120 AH capacity. Acid Battery	1	18700.00	Each	18700.00
20	Miscelaneous				177.22
	TOTAL				200000.00

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2014-15 Rates.and Lowest Quotation rates

Administrative Sanction for Rs. 2.00 lakh
Two Lakh only
is accorded for P-0294. M. and R to Electrical inst in BBMP Buildings Schools, M. Rooms markets and other
Subject to conditions contained in enclosed memo
No. EE/Elc/42/AS/09/15-16 Date 11.03.2016

Jr. Engineer (Elecl) /Asst Eng

Executive Engineer

EXECUTIVE ENGINEER (ELECL)
Yelahanaka Zone, BBMP

TECHNICALLY SANCTIONED FOR Rs. 2.00 lakhs
Rupees Two Lakh only
Under P-0294 M. and R to Electrical inst in BBMP Buildings
Registered as EE ( ) No. 99
Subject to conditions contained in
No. EE/Elc/42/AS/09/15-16
Estimate A/ Sanctioned
No. EE/Elc/42/TS/12/15-16
Dated 14.03.2016 Rs. 2.00 lakhs

Asst. Executive Engineer (Elecl)
Byt Sub Div, Yelahanka Zone 6

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Subject to conditions contained in

Asst Executive Engineer (Elecl) No. EE/Elc/42/AS/09/15-16

Byt Sub Div, Yelahanka Zone 6 Estimate A/ Sanctioned

EE/Elc/42/TS/12/15-16 No.

Dated 14.03.2016 Rs. 2.00 lakhs

EXECUTIVE ENGINEER (ELECL)
Yelahanaka Zone, BBMP

Executive Engineer